

## CLAIMS:

1. An immunogenic composition comprising a combination of *Chlamydia trachomatis* antigens, said combination consisting of two, three, four or all five *Chlamydia trachomatis* antigens of a first antigen group, said first antigen group consisting of PepA, LcrE, ArtJ, DnaK and CT398.
2. The composition of claim 1, wherein said combination consists of PepA, LcrE, ArtJ, DnaK and CT398.
3. The composition of claim 1, wherein said combination includes LcrE.
4. The composition of claim 1, said composition further comprising one or more immunoregulatory agents.
5. The composition of claim 4, wherein said one or more immunoregulatory agents include an adjuvant.
6. The composition of claim 5, wherein said adjuvant is selected from the group consisting of a TH1 adjuvant and a TH2 adjuvant.
7. The composition of claim 5, wherein the adjuvant is selected from the group consisting of aluminum salts and oligonucleotides comprising CpG motifs.
8. An immunogenic composition comprising a combination of *Chlamydia trachomatis* antigens, said combination consisting of two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, or thirteen *Chlamydia trachomatis* antigens of a second antigen group, said second antigen group consisting PepA, LcrE, ArtJ, DnaK, CT398, OmpH-like, L7/L12, OmcA, AtoS, CT547, Enolase, HtrA and MurG.
9. The immunogenic composition of claim 8, wherein said combination includes one or more of the group consisting of PepA, LcrE, ArtJ, DnaK, OmpH-like and CT398.
10. The immunogenic composition of claim 8, wherein said combination includes LcrE.

11. The immunogenic composition of claim 8, wherein said combination includes OmpH-like protein.
12. The composition of claim 8, said composition further comprising one or more immunoregulatory agents.
13. The composition of claim 12, wherein said one or more immunoregulatory agents include an adjuvant.
14. The composition of claim 13, wherein said adjuvant is selected from the group consisting of a TH1 adjuvant and a TH2 adjuvant.
15. The composition of claim 13, wherein the adjuvant is selected from the group consisting of aluminum salts and oligonucleotides comprising CpG motifs.
16. A vaccine comprising the immunogenic composition of any one of the previous claims.
17. Use of the immunogenic composition according to any one of claim 1 – 15 or a vaccine according to claim 16 in the preparation of a medicament for the prevention or treatment of a *Chlamydia trachomatis* infection.
18. A method of neutralizing a *Chlamydia trachomatis* infection in a mammal comprising the step of administering to the mammal an effective amount of the composition of any one of claims 1 to 15 or the vaccine according to claim 16 or antibodies which recognize an immunogenic composition as defined in any one of claims 1 to 15.
19. A method of raising an immune response in a mammal against a *Chlamydia trachomatis* infection comprising administering to the mammal an effective amount of the composition of any one of claims 1 to 15 or the vaccine according to claim 16 or antibodies which recognizes an immunogenic composition as defined in any one of claims 1 to 15.
20. The method of claim 19, wherein said composition elicits an enhanced TH1 and TH2 immune response.

21. A method of raising *Chlamydia trachomatis* specific antibodies comprising administering to the mammal an effective amount of the composition of any one of claims 1 to 15 or the vaccine according to claim 16 or an antibody which recognizes a protein as defined in any one of claims 1 to 15.
22. An immunogenic composition comprising a combination of *Chlamydia trachomatis* antigens, said combination consisting of two, three, four or all five *Chlamydia trachomatis* antigens of a first antigen group, said first antigen group consisting of PepA, LcrE, ArtJ, DnaK and CT398, wherein said composition further comprising one or more immunoregulatory agents.
23. An immunogenic composition comprising an oligonucleotide containing a CpG motif, a mineral salt, and an antigen associated with a sexually transmissible disease.
24. The composition of claim 23, wherein said mineral salt is an aluminum salt.
25. The composition of claim 23, wherein said antigen is a *Chlamydia trachomatis* antigen.